Ontology

The XYZ Schema provides structured datas and ontologies on all the XYZ APIs and applications.

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Overview

The **XYZ Schema** provides structured datas and ontologies on all the XYZ APIs and applications.



Ontology and vocabulary

Schema.org

The **XYZ ontology** extends the Schema.org and DBPedia ontologies.

Schema.org provides a collection of schemas, i.e., html tags, that webmasters can use to markup their pages in ways recognized by major search providers. Search engines including Bing, Google, Yahoo! and Yandex rely on this markup to improve the display of search results, making it easier for people to find the right web pages.

We use a part of the Schema.org ontology to defines the objects returns in the **XYZ API**.

Depending on the requirements we will complete patterns with other types of ontologies but trying to keep up standards and simplicity.

- Thing - The most generic type of item

- Event - An event happening at a certain time and location
- GeoCoordinates - The geographic coordinates of a place or event
- Offer - An offer to transfer some rights to an item or to provide a product or service
- PostalAddress - The mailing address
- Place - Entities that have a somewhat fixed, physical extension.

Dublin Core Metadatas

In all the datas objects use 3 specific properties from the Dublin Core Metadata schema :

- created
- modified
- publisher

Note : The *Dublin Core Schema* is a small set of vocabulary terms that can be used to describe web resources (video, images, web pages, etc.), as well as physical resources such as books or CDs, and objects like artworks. The full set of Dublin Core metadata terms can be found on the Dublin Core Metadata Initiative (DCMI) website.

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Schema

Schema

Place

Entities that have a somewhat fixed, physical extension.

Property	Expected type	Description
address	PostalAddress	Physical address of the item.
events	Event or Array of **Events**	Upcoming or past events associated with this place or organization (legacy spelling; see singular form, event).
geo	GeoCoordinates	The geo coordinates of the place

Inherited properties from Thing

Expected operator	Description type	
id	Integer	The resource identifier.
url	Text	URL of the item.
created	Date	Date of creation of the resource.
modified	Date	Date on which the resource was changed.
active	Date	Indicates the item is active or not.
withStatus	Date	Indicates the current status of the item.

Property	Expected type	Description
name	Text	The name of the item.
alternateName	Text	The alternative i18n name of the item.
description	Text	A description of the item.
image	ImageObject	A description of the item.
note	Text	The note description of the item.

Example

```
{
    "id": 1,
    "name": "Musée International d'Art Naïf Anatole Jakovsky",    "created": "2014-08-20T10:39:19+0200",
    "modified": "2014-09-10T16:23:07+0200",    "url": "https://schema.ooopener.xyz/places/1",    "description": "Le musée installé au château Sainte-Hélène, ..." ,
```

```
    "address":
    {
        "addressCountry": "FR",
        "addressDepartment": "ALPES-MARITIMES",
        "addressLocality": "Nice",        "addressRegion": "PROVENCE-ALPES-COTE
D'AZUR",
        "legalName": "Musée International d'Art Naïf Anatole Jakovsky",        "postalCode":
"06200",
        "streetAddress": "Château Sainte-Hélène Avenue Val Marie"
    },
    "geo":
    {
        "latitude": 43.6877482,
        "longitude": 7.2113605
    }
}
```